

Sketch/Machine Add-on Modules:

CADReader

Use the CADReader to save time and eliminate costly programming errors. With the CADReader, **Sketch/Machine** automatically identifies the measurements of the geometry you select. You can have integrated CAM with your CAD system. Or use your customers' CAD file.

Plotter Driver

Plot your sketches as you draw them and hand them off to someone else!

Backplotter

Tack on this module to dry-run your programs on-screen without tying up your NC. Ideal for making a beautiful picture out of old tapes.

MouseRuf

Do you do a lot of pockets? MouseRuf will let you speedily select the toolpath. Now you can avoid weird islands, hog out large sections of material and clean out complex pockets just by *clicking your mouse*. Wow!

Custom Post Processor

G-code written specifically for your cranky, old, non-standard NC. Take advantage of all your equipment and let **Sketch/Machine** write the NC code that works for you.

Tool Radius Comp

Let **Sketch/Machine** do the trigonometry for you -- any size tool.

Sketch/Machine

It's about time the perfect tool for quick G-code arrived.



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Sketch/Machine

IT'S ABOUT TIME

Sketch/Machine

Imagine that you are discussing a part. You pick up a pen and quickly sketch it onto a napkin. Unfortunately, your part looks nothing like the picture in your head. What if, instead of a pen, you had sketched using a mouse? And, the napkin had been a computer? After you finished sketching, the PC automatically asked you for the dimensions and automatically rescaled the part accordingly. Wouldn't that be great? (It gets better!)

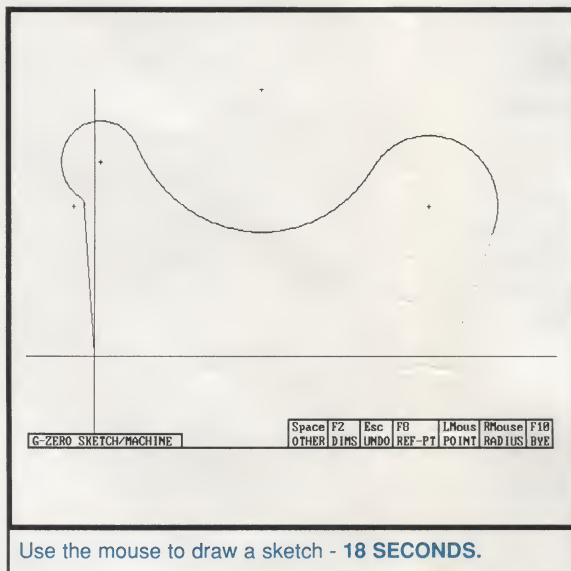
Now press just one key to get instant G-code. Press another key to send it to your CNC. Boom! You're making chips! *In minutes.*

Sketching, auto-dimensioning and G-code *in an instant*; this is **Sketch/Machine**. Besides complex contouring, quickly and simply:

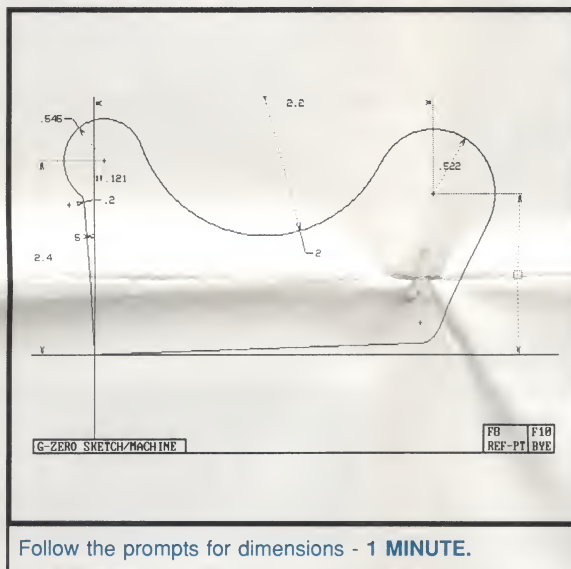
- add cutter comp for any-sized tool
- rough out pockets (pick any toolpath)
- generate G-code from a CAD file
- plot your sketch on a plotter
- backplot old NC tapes
- get G-code for old or non-standard NCs.

Sketch/Machine comes with editing capabilities, tape storage and organization plus **Sketch/Machine** instantly sends and receives tapes between your PC and CNC or it punches/reads tapes. Each **Sketch/Machine** system also comes with a Universal Post Processor so that you can create G-code for all your CNCs. Of course, **Sketch/Machine** is upgradable to Rapid Output's full CAM System, G-ZERO.

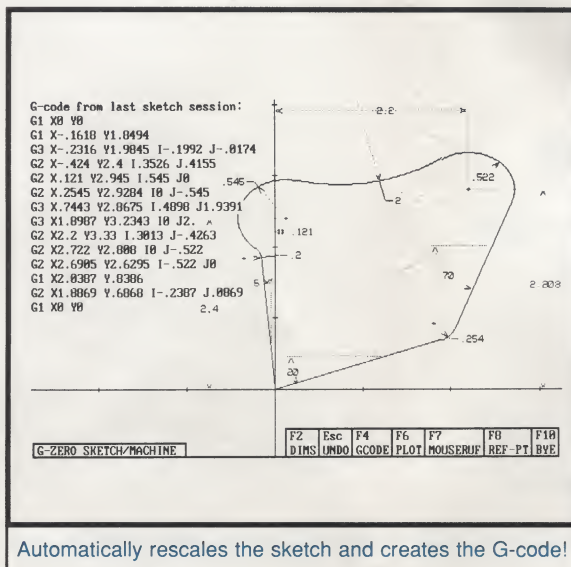
See how quickly and easily you can create G-code! For your **FREE Sketch/Machine** demo disk, call 415/487-4012 today. For Mill, Lathe, Punch Press, Flame Cutter and Wire EDM.



1



2



3

Done!

EDI

command keys:

F1 - HELP

Press one key for instant on-screen assistance.

F2 - RENUM

Instantly renumber your tape or add line numbers to an existing tape.

F3 - PRINT

Make printouts to pass around the shop.

F4 - SEND

After you finish writing a program, send it to your punch or CNC with the touch of just one key.

F5 - RECEIVE

The opposite of F4 - SEND. Press this key to read in a program from your CNC or punch/reader.

F6 - FIND

Let **EDI** search for any combination of letters or characters so that you can quickly doublecheck or modify the program.

F7 - LINK

Press this key and you are instantly "talking" directly to your CNC.

F8 - CAD (demo)

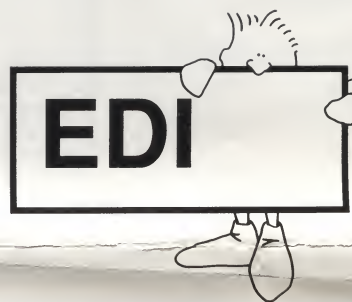
Pull in a DXF/IGES CAD file, add in cutter comp and instantly translate to G-code.

F9 - SHOW (demo)

Backplot old tapes so you can see what they do ("dry-run" on-screen).

F10 - Sketch/Machine (demo)

The most powerful contour package on Earth is just one keystroke away.



IT'S ABOUT TIME



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EDI is an easy-to-use CNC Communications package. Why is it free? To introduce you to G-ZERO (**EDI** is a tiny piece of it) and to demonstrate the quality and usability of our software. We think you'll like it -- especially the time it saves you.

EDI will do your text editing, tape storage/retrieval and send/receive from your computer to CNC automatically. Plus, your **EDI** disk includes a demo version of **Sketch/Machine**. Go ahead. Play around and pass it around to your friends!

If there is a special feature you need, call us! We customize. 415/487-4012.

%
 00001
 T1M6(ROUGHING ENDMILL)
 G0G40G54G00G90X0Y-.0625S6000M3
 G43Z.05H1M8
 G1Z-.115F2.8
 X-.305F7.2
 G2X-.3725Y.005I0J.0675
 G1Y.1274
 G3X-.373Y.1279I-.0005J0F3.6
 G1X-.3706Y.1282F7.2
 G2X-.4425Y.1956I.0036J.0674
 G1Y.4667
 G3X-.4429Y.4671I-.0005J0F3.6
 G1X-.9325Y.5983F7.2
 G2X-.9825Y.6635I.0175J.0652
 G1Y.8427
 G2X-.9821Y.8498I.0675J0
 G1X-.9581Y1.0783
 G2X-.0839Y1.1383I.0671J-.0071
 G1X-.3799Y1.0854
 X-.0361Y1.1215
 G2X.0381Y1.0614I.0071J-.0671

Esc	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10
exit	help	rnum	prnt	send	recv	find	link	cad	show	sketch

All your options are just one keystroke away.

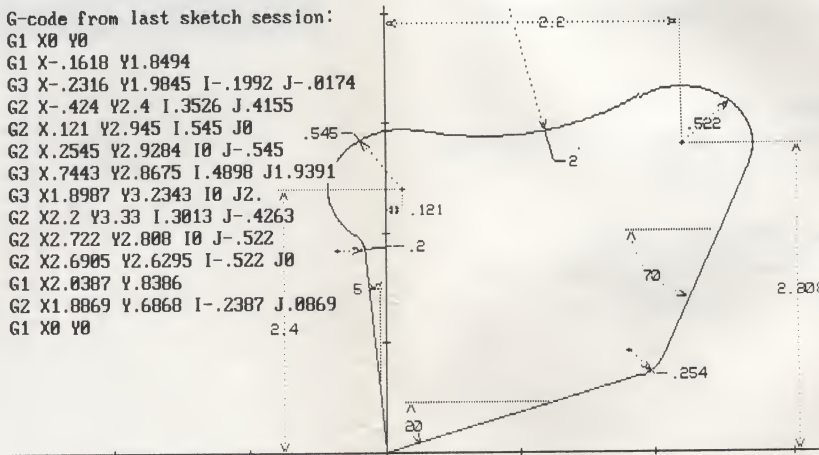
Sketch/Machine

Press F10 inside EDI to start. Use a mouse to quickly make a sketch of a part. **Sketch/ Machine** prompts you for the dimensions. Then, press just one key to get automatic, instant G-code. Press another key to send it to your CNC-- you're making chips!

Sketch/Machine features: pocket-roughing, G-code from CAD files, plotter driver, backplotter, G-code for old or non-standard NCs, and our Universal Post Processor.

See how quickly and easily you can create
G-code with **EDI** and **Sketch/Machine!** For a
FREE Demo Disk, call 415/487-4012.

```
G-code from last sketch session:
G1 X0 Y0
G1 X-.1618 Y1.8494
G3 X-.2316 Y1.9845 I-.1992 J-.8174
G2 X-.424 Y2.4 1.3526 J.4155
G2 X.121 Y2.945 I.545 J0
G2 X.2545 Y2.9284 I0 J-.545
G3 X.7443 Y2.8675 I.4898 J1.9391
G3 X1.8987 Y3.2343 I0 J2.
G2 X2.2 Y3.33 I1.3013 J-.4263
G2 X2.722 Y2.800 I0 J-.522
G2 X2.6985 Y2.6295 I-.522 J0
G1 X2.8387 Y.8386
G2 X1.8869 Y.6868 I-.2387 J.8869
G1 X0 Y0
```



G-ZERO SKETCH/MACHINE	F2 DIMS	Esc UNDO	F4 GCODE	F6 PLOT	F7 MOUSERUF	F8 REF-PT	F10 BYE
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Press F10 to make a sketch like this!